

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3414	(expand\$4 adj graphite or exfoliat\$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT	ADJ	OFF	2008/12/17 16:44
S2	3132	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 (graphite or graphoil or grafoil)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:51
S3	2495	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 (vermiculite or mica or biotite or phlogopite)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:51
S4	2394618	(multilayer or (multi or many or different) adj2 (layer\$3 or strata or coat\$4) or layer\$4 or composit\$2 or coating)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:51
S5	199	S2 same S3	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:52
S6	64	S5 same S4	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:52
S7	3132	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 (graphite or graphoil or grafoil)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S8	2495	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 (vermiculite or mica or biotite or phlogopite)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S9	2394618	(multilayer or (multi or many or different) adj2 (layer\$3 or strata or coat\$4) or layer\$4 or composit\$2 or coating)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S10	199	S7 same S8	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S11	64	S10 same S9	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S12	51	S11 AND @py<="2006"	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S13	1253	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 (graphite or graphoil or grafoil)	EPO; JPO	ADJ	OFF	2008/12/18 10:18
S14	210	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 (vermiculite or mica or biotite or phlogopite)	EPO; JPO	ADJ	OFF	2008/12/18 10:18
S15	1378439	(multilayer or (multi or many or different) adj2 (layer\$3 or strata or coat\$4) or layer\$4 or composit\$2 or coating)	EPO; JPO	ADJ	OFF	2008/12/18 10:18
S16	26	S13 and S14	EPO; JPO	ADJ	OFF	2008/12/18 10:19

S17	2305	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 (graphite or graphoil or grafoil)	DERWENT	ADJ	OFF	2008/12/18 10:35
S18	1090	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 (vermiculite or mica or biotite or phlogopite)	DERWENT	ADJ	OFF	2008/12/18 10:36
S19	2205399	(multilayer or (multi or many or different) adj2 (layer\$3 or strata or coat\$4) or layer\$4 or composit \$2 or coating)	DERWENT	ADJ	OFF	2008/12/18 10:36
S20	74	S17 and S18	DERWENT	ADJ	OFF	2008/12/18 10:36
S21	30	S20 and S19	DERWENT	ADJ	OFF	2008/12/18 10:37
S22	1	"6051193".PN.	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 10:52
S23	1	"6279229".PN.	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 10:53
S24	0	EP19900312440	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 11:05
S25	0	EP "19900312440"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	OFF	2008/12/18 11:06
S26	0	("EP19900312440").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/12/18 11:06
S27	0	EP19900312440	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2008/12/18 11:09
S28	11	Yang, Julie C	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2008/12/18 11:09
S29	2	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 hydrated adj1 magnesium adj1 aluminum adj1 iron adj1 silicate	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 11:47
S30	0	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 hydrated adj1 magnesium adj1 aluminum adj1 iron adj1 silicate	DERWENT	ADJ	OFF	2008/12/18 11:49
S31	0	(expand\$4 OR intumesc\$4 OR inflate\$4 OR exfoliat\$4) near4 hydrated adj1 magnesium adj1 aluminum adj1 iron adj1 silicate	EPO; JPO	ADJ	OFF	2008/12/18 11:49
S32	1	"6051193".PN.	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 17:00

S33	3727	(expand\$4 with graphite) or (exfoliat\$4 with (graphite or graphoil or grafoil)) and vermiculite	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:32
S34	4009	(expand\$4 with graphite) or (exfoliat\$4 with graphite) or graphoil or grafoil and vermiculite	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:32
S35	4009	(expand\$4 with graphite) or (exfoliat\$4 with graphite) or graphoil or grafoil and (vermiculite or lamellar)	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:33
S36	412	S35 and composite	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:33
S37	47	S36 and (compress or press)	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:34
S38	115	S36 and (compress\$3 or press)	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:34
S39	130	((expand\$4 with graphite) or (exfoliat\$4 with graphite) or graphoil or grafoil) and ((expand \$4 with vermiculite) or (exfoliat\$4 with vermiculite) or lamellar)	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:35
S40	17	S39 and composite	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:35
S41	353	((expand\$4 with graphite) or (exfoliat\$4 with graphite) or graphoil or grafoil) and ((expand \$4 with vermiculite) or (exfoliat\$4 with vermiculite) or lamellar)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:48
S42	272	S41 and (layer\$4 or multilayer\$4)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:49
S43	161	S42 and composite	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:49
S44	114	S43 and (compress\$4 or press)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:50
S45	144	((expand\$4 adj graphite) or (exfoliat\$4 adj graphite) or graphoil or grafoil) and ((expand \$4 adj vermiculite) or (exfoliat\$4 adj vermiculite) or lamellar)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:50
S46	119	S45 and (layer\$4 or multilayer\$4)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:50
S47	58	S46 and composite	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:51
S48	45	S47 and (compress\$4 or press)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:51
S49	1	"5612272".PN.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 16:24
S50	65	S45 and composite	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 16:27
S51	7	S50 not S47	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 16:28

S52	5	WO-02069415-\$.DID. OR EP-0568270-\$.DID. OR US-5247005-\$.DID. OR US-5288429-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 16:31
S53	2	US-5607889-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 16:31
S54	1204	compress\$3 composite	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:30
S55	16029	compress\$3 with composite	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:31
S56	202	S55 and (adjacent layer)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:31
S57	1	S56 and orthogonal	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:31
S58	147557	compress\$3 and composite	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:32
S59	1617	S58 and (adjacent layer)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:32
S60	173	S59 and orthogonal	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:33
S61	1	S60 and single direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:33
S62	0	S58 and (compress\$4 with three orthogonal direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:41
S63	22	S58 and (compress\$4 with orthogonal direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:41
S64	17959	S58 and (multi layer or multilayer or many layers or multiple layer)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:42
S65	0	S64 and compress\$4 with (multiple or many) direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:43
S66	1563	S64 and compress\$4 with direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:43
S67	0	S64 and compress\$4 with (many or multiple or different) adjdirection	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:44
S68	2	S64 and compress\$4 with (many or multiple or different) adj direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:44
S69	31	S66 and compress\$4 and orthogonal direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:45
S70	2595	(264/110,112,113,241).CCLS.	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:47
S71	2	S70 and (expand\$4 with graphite or exfoliat\$4 with graphite or graphoil or grafoil) and vermiculite and (layer\$4 or multilayer\$4)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:48
S72	0	("2009/0072448").URPN.	USPAT	ADJ	OFF	2009/03/31 09:51

S73	1	S70 and (expand\$4 with graphite or exfoliat\$4 with graphite or graphoil or grafoil) and vermiculite and (layer\$4 or multilayer\$4)	USPAT	ADJ	OFF	2009/03/31 09:52
S74	17	S70 and (expand\$4 with graphite or exfoliat\$4 with graphite or graphoil or grafoil)	USPAT	ADJ	OFF	2009/03/31 09:53
S75	0	S70 and compress\$4 with (many or multiple or different) adj direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:00
S76	0	(carbon graphite) with particle\$2 same (layer\$4 multilayer\$4 coat \$4) and (vermiculite mica clay) with particle\$2 same (layer\$4 multilayer\$4 coat\$4)	USPAT	ADJ	OFF	2009/03/31 10:01
S77	21	US-6605379-\$.DID. OR WO-02069415-\$.DID. OR EP-0568270-\$.DID. OR US-3703693-\$.DID. OR US-2094367-\$.DID. OR DE-69311964-\$.DID. OR DE-69311964D1-\$.DID. OR US-5309690-\$.DID. OR US-9302755-\$.DID. OR US-5247005-\$.DID. OR DE-4117074-\$.DID. OR US-2069219-\$.DID. OR DE-59202790-\$.DID. OR DE-59202790D-\$.DID. OR EP-0515891-\$.DID. OR JP-5221721-\$.DID. OR US-5288429-\$.DID. OR DE-4117077-\$.DID. OR US-2069220-\$.DID. OR DE-59202791-\$.DID. OR DE-59202791D1-\$.DID. OR EP-0515892-\$.DID. OR JP-5201758-\$.DID. OR US-5607889-\$.DID. OR US-2715082-\$.DID. OR US-2140486-\$.DID. OR DE-69504538-\$.DID. OR DE-69504538D-\$.DID. OR EP-0664158-\$.DID. OR JP-7257917-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/31 10:03
S78	2714	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil)	USPAT	ADJ	OFF	2009/03/31 10:15
S79	159	S78 and layer and (compress\$4 with direction)	USPAT	ADJ	OFF	2009/03/31 10:16
S80	3	S78 and layer and (compress\$4 with (multi\$4 or many or different or perpendicular\$2 or orthogonal) direction)	USPAT	ADJ	OFF	2009/03/31 10:17
S81	67	S78 and ((multi\$4 or many or different or perpendicular\$2 or orthogonal) direction)	USPAT	ADJ	OFF	2009/03/31 10:20
S82	16	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil) and (\$4press\$4 with (multi \$4 or many or different or perpendicular\$2 or orthogonal) direction)	USPAT	ADJ	OFF	2009/03/31 10:32

S83	0	"34040561".PN.	USPAT	ADJ	OFF	2009/03/31 10:42
S84	1	"3404061".PN.	USPAT	ADJ	OFF	2009/03/31 10:42
S85	4635	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:43
S86	159	S78 and layer and (compress\$4 with direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:43
S87	344	S85 and layer and (compress\$4 with direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:43
S88	128	S85 and ((multi\$4 or many or different or perpendicular\$2 or orthogonal) direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:44
S89	613	Da Silva.IN.	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:49
S90	0	Da Silva-Serge.IN.	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:50
S91	0	Da Silva-Serge.in.	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:50
S92	3	S89 and serge	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:51
S93	7271	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 10:54
S94	27	S93 and (\$4press\$4 with (multi\$4 or many or different or perpendicular\$2 or orthogonal) direction)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 10:54
S95	7	US-5247005-\$.DID. OR US- 5288429-\$.DID. OR US-5607889-\$. DID. OR WO-02069415-\$.DID. OR EP-0568270-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/31 10:59
S96	0	active composte	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/31 11:00
S97	458	active composite	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/31 11:00
S98	5	S97 and (\$4press\$4 with (multi\$4 or many or different or perpendicular\$2 or orthogonal) direction)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:01
S99	7	S97 and ((multi\$4 or many or different or perpendicular\$2 or orthogonal) direction)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:02
S100	2	S99 not S98	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:03
S101	136	S93 and ((multi\$4 or many or different or perpendicular\$2 or orthogonal) direction)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:05

S102	109	S101 not S94	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:05
S103	8978	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 11:07
S104	2	S103 and ((compress\$4 or press \$4) same ((x y z direction) OR (a b c direction)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 11:08
S105	3	S103 and ((compress\$4 or press \$4) same (orthogonal direction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 11:11
S106	92	S103 and (recess\$4 or cavit\$4 or (capture form)) and (infra red OR infrared)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:03
S107	4	S103 and (recess\$4 or cavit\$4 or (capture form)) with (infra red OR infrared)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:03
S108	4	S103 and ((recess\$4 or cavit\$4 or (capture form)) with (infra red OR infrared))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:03
S109	31	press with surface with (expand\$4 with graphite or exfoliat\$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:22
S110	0	vermiculite lyophiliz\$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:58
S111	0	vermiculite with lyophiliz\$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:58

S112	0	vermiculite same lyophiliz\$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:58
S113	0	vermiculite and lyophiliz\$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:58
S114	1	vermiculite and lyophiliz\$4 with enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:59
S115	1337	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil) and mold	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 15:00
S116	501	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil) and mold and (vermiculite or mica or clay)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 15:02
S117	7	S116 and (recess or form or cavity) and infrared radiation	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 15:02
S118	1159	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil) and tube	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 15:21
S119	1	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil) and permanent tube	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 09:21
S120	1	"6037074".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 09:22
S121	23	(expand\$4 with graphite or exfoliat \$4 with graphite or graphoil or grafoil) and vermiculite with coat \$4	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:08
S122	2282	expand\$4 adj graphite	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:15
S123	742	expand\$4 adj vermiculite	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:16
S124	35	S122 and S123	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:16
S125	10	S124 and composite	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:16
S126	13	("5853675").URPN.	USPAT	ADJ	OFF	2009/04/01 10:22
S127	0	S126 and S122 and S123 and S125	USPAT	ADJ	OFF	2009/04/01 10:23
S128	1	S126 and S122 and S123	USPAT	ADJ	OFF	2009/04/01 10:23

S129	1	S126 and S122 and (vermiculite OR mica or clay)	USPAT	ADJ	OFF	2009/04/01 11:14
S130	8	S126 and (S122 or intumescent) and (vermiculite OR mica or clay)	USPAT	ADJ	OFF	2009/04/01 11:18
S131	304	composite and ((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent))	USPAT	ADJ	OFF	2009/04/01 11:21
S132	629	composite and ((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:21
S133	596	S132 and (layer\$4 or multilayer\$4 or coat\$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:21
S134	190	S133 and (perlite or silicon dioxide or SiO2 or dialuminum trioxide or Al2O3 or kandite or illite or smectite or kaolinite)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:23
S135	1	"4929429".PN.	USPAT	ADJ	OFF	2009/04/01 11:26
S136	105	composite same (((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:28
S137	99	S136 and (layer\$4 or multilayer\$4 or coat\$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:28
S138	27	S137 and (perlite or silicon dioxide or SiO2 or dialuminum trioxide or Al2O3 or kandite or illite or smectite or kaolinite)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:29
S139	41	("3916057" "4048363" "4220500" "4271228" "4285909" "4305992" "4454190" "4495030" "4499134" "4504527" "4600634" "4612087" "4750251" "4782661" "4863700" "4865818" "4879170" "4929429" "4999168" "5032441" "5094780" "5132054" "5137658" "5139615" "5246759" "5254410" "5258216" "5332609" "5376341" "5384188" "5385873" "5452551" "5468348" "5482686" "5523059" "5580532" "5615711" "5686039" "5736109" "5853675" "5869010").PN.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/04/01 11:41

S140	63449	"41" and (perlite or silicon dioxide or SiO ₂ or dialuminum trioxide or Al ₂ O ₃ or kandite or illite or smectite or kaolinite)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:41
S141	10	S139 and (perlite or silicon dioxide or SiO ₂ or dialuminum trioxide or Al ₂ O ₃ or kandite or illite or smectite or kaolinite)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:42
S142	95	electrochemical and (((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:52
S143	0	"electrochemical cell"and (((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:52
S144	91	electrochemical and (((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent))) and (layer\$4 or multilayer\$4 or coat\$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:53
S145	77	electrochemical and (((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent))) and (layer\$4 or multilayer\$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:53
S146	1	"3,441,381".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:05
S147	390	((expand\$4 or exfoliat\$4) adj graphite) with density	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:21
S148	50	((expand\$4 or exfoliat\$4) adj graphite) with density and (vermiculite or mica) and (layer\$4 or multilayer\$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:22
S149	7	11/293,540	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:24
S150	1	"4,704,231".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:29
S151	1	"3,409,563".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:32

S152	39	US-6171720-\$.DID. OR US-6037073-\$.DID. OR US-5300370-\$.DID. OR US-6248467-\$.DID. OR US-6939638-\$.DID. OR US-6881512-\$.DID. OR US-20040229993-\$.DID. OR US-5527363-\$.DID. OR US-5885728-\$.DID. OR US-6037074-\$.DID. OR US-3492197-\$.DID. OR US-4265952-\$.DID. OR US-4530949-\$.DID. OR US-4729910-\$.DID. OR US-4704231-\$.DID. OR US-4946892-\$.DID. OR US-20010046560-\$.DID. OR US-6746771-\$.DID. OR US-20070015267-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/04/01 13:40
S153	39	US-6171720-\$.DID. OR US-6037073-\$.DID. OR US-5300370-\$.DID. OR US-6248467-\$.DID. OR US-6939638-\$.DID. OR US-6881512-\$.DID. OR US-20040229993-\$.DID. OR US-5527363-\$.DID. OR US-5885728-\$.DID. OR US-6037074-\$.DID. OR US-3492197-\$.DID. OR US-4265952-\$.DID. OR US-4530949-\$.DID. OR US-4729910-\$.DID. OR US-4704231-\$.DID. OR US-4946892-\$.DID. OR US-20010046560-\$.DID. OR US-6746771-\$.DID. OR US-20070015267-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/04/01 13:40
S154	40	US-8001100-\$.DID. OR US-20010046560-\$.DID. OR US-20070015267-\$.DID. OR US-5001500-\$.DID. OR US-7001050-\$.DID. OR US-5001200-\$.DID. OR US-2110220-\$.DID. OR US-1340117-\$.DID. OR US-1171753-\$.DID. OR US-1262161-\$.DID. OR US-1338115-\$.DID. OR US-1151725-\$.DID. OR US-1703114-\$.DID. OR US-1328133-\$.DID. OR US-1101159-\$.DID. OR US-2382651-\$.DID. OR US-1305108-\$.DID. OR US-1081619-\$.DID. OR US-1198271-\$.DID. OR US-4705875-\$.DID. OR US-1601996-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/04/01 13:41
S155	3	S154 and ((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) or (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:42
S156	11	S153 and ((expand\$4 graphite) or (exfoliat\$4 graphite) or intumescent) or (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:44

S157	208	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) AND ((emboss\$4 or perforat\$4 or texture) near10 surface)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:13
S158	57	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) WITH ((emboss\$4 or perforat\$4 or texture) near10 surface)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:13
S159	49	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) WITH ((emboss\$4 or perforat\$4 or texture) near3 surface)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:13
S160	1	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) WITH ((emboss\$4 or perforat\$4 or texture) near3 surface) WITH (mm or cm)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:48
S161	2	"4,155,970".PN. OR "5385700".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:58
S162	2	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) WITH ((emboss\$4 or perforat\$4 or texture) near10 surface) WITH (mm or cm)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 15:01
S163	1	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) Near10 (((emboss\$4 or perforat\$4 or texture) near10 surface) WITH (mm or cm))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 15:05
S164	1	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) Near10 (((emboss\$4 or perforat\$4 or texture) near10 surface) Near10 (mm or cm))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 15:06
S165	2	2004/0000391	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 15:08
S166	1	"20040000391".PN.	US-PGPUB	ADJ	OFF	2009/04/01 15:09
S167	1	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) Near10 (((emboss\$4 or perforat\$4 or texture or hole) near10 surface) Near10 (mm or cm))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 17:19
S168	1	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) Near10 (((emboss\$4 or perforat\$4 or texture or hole) near10 surface) Near10 (mm or cm))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:19
S169	86	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) with (((emboss\$4 or perforat\$4 or texture or hole) with surface))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:20

S170	0	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) with (((emboss\$4 or perforat\$4 or texture or hole) with surface)) near10 (cm or mm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:20
S171	27	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) with (((emboss\$4 or perforat\$4 or texture or hole))) same (cm or mm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:21
S172	69	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) with (((emboss\$4 or perforat\$4 or texture or hole))) same2 (cm or mm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:22
S173	0	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) (salt core or wax core)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:18
S174	1049	(salt core or wax core)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:19
S175	59	(salt core or wax core) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:19
S176	0	((expand\$4 graphite) or (exfoliat\$4 graphite) or (flexible graphite)) and (salt core or wax core)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:19
S177	53	(remov\$4 or dissolv\$4 or destruct\$4) and (salt core or wax core) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:20
S178	47	(remov\$4 or dissolv\$4 or destruct\$4) and (salt core or wax core) and graphite and (heat\$4 or cool\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:30

S179	0	vermiculite same lyophiliz\$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:45
S180	0	vermiculite and lyophiliz\$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:45
S181	5	(vermiculite or mica or clay or (non intumescent or non-intumescent)) and lyophiliz\$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:46
S182	5	(vermiculite or mica or clay or (non intumescent or non-intumescent)) and ((lyophiliz\$4 or freeze dried or freeze-dried) adj enzyme)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:25
S183	15003	(vermiculite or mica or clay or (non intumescent or non-intumescent)) and (enzyme)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:26
S184	14056	(vermiculite or mica or clay or (non intumescent or non-intumescent)) and (enzyme)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:26
S185	1468	vermiculite and enzyme	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:27
S186	18	((expand\$4 or exfoliat\$4) adj vermiculite) and enzyme	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:28
S187	1	((expand\$4 or exfoliat\$4) adj vermiculite) same enzyme	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:31
S188	26	(vermiculite) same enzyme	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:31
S189	5	(permanent core) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:34
S190	53934	(permanent core or tube) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:35

S191	12	(permanent adj (core or tube)) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:36
S192	126	(((exfoliat\$4 or expand\$4 or flexible) adj graphite) same (((catalytic or catalyst) with metal) or (metal oxide)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:40
S193	80	S192 and ("% or percent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:41
S194	1	"3389200".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/02 15:47
S195	0	2002/0192457	US-PGPUB; USPAT	ADJ	OFF	2009/04/02 16:51
S196	0	2002/0192457	US-PGPUB	ADJ	OFF	2009/04/02 16:51
S197	1	"20020192457"	US-PGPUB	ADJ	OFF	2009/04/02 16:53
S198	0	("2002/0192457").URPN.	USPAT	ADJ	OFF	2009/04/02 16:56
S199	2536	graphite same surface same (textur\$4 or emboss\$4 or perforat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 16:59
S200	29	graphite surface same (textur\$4 or emboss\$4 or perforat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 16:59
S201	1130	graphite same (surface with (textur\$4 or emboss\$4 or perforat\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:09
S202	436	graphite with (surface with (textur\$4 or emboss\$4 or perforat\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:09

S203	12	(graphite adj (surface or face)) with (textur\$4 or emboss\$4 or perforat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:09
S204	132	graphite with (surface with (textur \$4 or emboss\$4 or perforat\$4 or recess\$4 or cavit\$4)) and radiation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:18
S205	9	graphite with (surface with (textur \$4 or emboss\$4 or perforat\$4 or recess\$4 or cavit\$4)) with radiation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:18
S206	0	(graphite adj (surface or face)) with (textur\$4 or emboss\$4 or perforat\$4 or recess\$4 or cavit\$4 or groov\$4) with radiation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:23
S207	49	(graphite adj (surface or face)) with (textur\$4 or emboss\$4 or perforat\$4 or recess\$4 or cavit\$4 or groov\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:23
S208	60	(graphite adj (surface or face)) with (textur\$4 or emboss\$4 or perforat\$4 or recess\$4 or cavit\$4 or groov\$4 or hole)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:29
S209	11	S208 not S207	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:29
S210	49	S208 not S209	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:34
S211	277	(graphite adj (sheet)) with (textur \$4 or emboss\$4 or perforat\$4 or recess\$4 or cavit\$4 or groov\$4 or hole)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:46

S212	28	(graphite adj (sheet)) with (textur\$4 or emboss\$4 or perforat\$4 or recess\$4 or cavit\$4 or groov\$4 or hole) and radiation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:47
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